

Jarrell, Noble

178582

**From:** Ramirez, Delia  
**Sent:** Friday, February 03, 2006 2:32 PM  
**To:** Jarrell, Noble  
**Subject:** 10/675685

Hi,

I would like to request the following alignments:

1. SEQ ID NO: 3 against SEQ ID NO:7, 10 and 16
2. SEQ ID NO: 7 against SEQ ID NO:14 and 18

Thank you very much,

---

Delia M. Ramirez, Ph.D.  
Patent Examiner  
Recombinant Enzymes-Art Unit 1652  
USPTO  
400 Dulany Street, Remsen Bldg., 2D74, Mail room 2C70  
Alexandria, VA 22314  
(571) 272-0938  
delia.ramirez@uspto.gov

Noble  
Em 2/3/06  
10 PR YAA  
10 ONL gcg

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:17:20 ; Search time 0.001 Seconds  
(without alignments)  
0.684 Million cell updates/sec

Title: US-10-675-685-14  
Perfect score: 178  
Sequence: 1 VISQLLLVPLSQEHTYATYLSQKIVALPSRWLV 36

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 19 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : Pending Patents AA Main:US-10-675-685-7  
1: /cgn2\_6/ptodata/1/paa/PTCTUS COMB.pap:US-10-675-685-7  
2: /cgn2\_6/ptodata/1/paa/US066 COMB.pap:US-10-675-685-7  
3: /cgn2\_6/ptodata/1/paa/US073 COMB.pap:US-10-675-685-7  
4: /cgn2\_6/ptodata/1/paa/US074 COMB.pap:US-10-675-685-7  
5: /cgn2\_6/ptodata/1/paa/US075 COMB.pap:US-10-675-685-7  
6: /cgn2\_6/ptodata/1/paa/US076 COMB.pap:US-10-675-685-7  
7: /cgn2\_6/ptodata/1/paa/US077 COMB.pap:US-10-675-685-7  
8: /cgn2\_6/ptodata/1/paa/US078 COMB.pap:US-10-675-685-7  
9: /cgn2\_6/ptodata/1/paa/US079 COMB.pap:US-10-675-685-7  
10: /cgn2\_6/ptodata/1/paa/US080 COMB.pap:US-10-675-685-7  
11: /cgn2\_6/ptodata/1/paa/US081 COMB.pap:US-10-675-685-7  
12: /cgn2\_6/ptodata/1/paa/US082 COMB.pap:US-10-675-685-7  
13: /cgn2\_6/ptodata/1/paa/US083 COMB.pap:US-10-675-685-7  
14: /cgn2\_6/ptodata/1/paa/US084 COMB.pap:US-10-675-685-7  
15: /cgn2\_6/ptodata/1/paa/US085 COMB.pap:US-10-675-685-7  
16: /cgn2\_6/ptodata/1/paa/US086 COMB.pap:US-10-675-685-7  
17: /cgn2\_6/ptodata/1/paa/US087 COMB.pap:US-10-675-685-7  
18: /cgn2\_6/ptodata/1/paa/US088 COMB.pap:US-10-675-685-7  
19: /cgn2\_6/ptodata/1/paa/US089 COMB.pap:US-10-675-685-7  
20: /cgn2\_6/ptodata/1/paa/US090 COMB.pap:US-10-675-685-7  
21: /cgn2\_6/ptodata/1/paa/US091 COMB.pap:US-10-675-685-7  
22: /cgn2\_6/ptodata/1/paa/US092 COMB.pap:US-10-675-685-7  
23: /cgn2\_6/ptodata/1/paa/US093 COMB.pap:US-10-675-685-7  
24: /cgn2\_6/ptodata/1/paa/US094 COMB.pap:US-10-675-685-7  
25: /cgn2\_6/ptodata/1/paa/US095 COMB.pap:US-10-675-685-7  
26: /cgn2\_6/ptodata/1/paa/US096 COMB.pap:US-10-675-685-7  
27: /cgn2\_6/ptodata/1/paa/US097 COMB.pap:US-10-675-685-7  
28: /cgn2\_6/ptodata/1/paa/US098 COMB.pap:US-10-675-685-7  
29: /cgn2\_6/ptodata/1/paa/US099 COMB.pap:US-10-675-685-7  
30: /cgn2\_6/ptodata/1/paa/US100 COMB.pap:US-10-675-685-7  
31: /cgn2\_6/ptodata/1/paa/US101 COMB.pap:US-10-675-685-7  
32: /cgn2\_6/ptodata/1/paa/US102 COMB.pap:US-10-675-685-7  
33: /cgn2\_6/ptodata/1/paa/US103 COMB.pap:US-10-675-685-7  
34: /cgn2\_6/ptodata/1/paa/US104 COMB.pap:US-10-675-685-7  
35: /cgn2\_6/ptodata/1/paa/US105 COMB.pap:US-10-675-685-7  
36: /cgn2\_6/ptodata/1/paa/US106 COMB.pap:US-10-675-685-7  
37: /cgn2\_6/ptodata/1/paa/US107 COMB.pap:US-10-675-685-7  
38: /cgn2\_6/ptodata/1/paa/US108 COMB.pap:US-10-675-685-7  
39: /cgn2\_6/ptodata/1/paa/US109 COMB.pap:US-10-675-685-7  
40: /cgn2\_6/ptodata/1/paa/US110 COMB.pap:US-10-675-685-7  
41: /cgn2\_6/ptodata/1/paa/US111 COMB.pap:US-10-675-685-7  
42: /cgn2\_6/ptodata/1/paa/US112 COMB.pap:US-10-675-685-7  
43: /cgn2\_6/ptodata/1/paa/US114 COMB.pap:US-10-675-685-7

44: /cgn2\_6/ptodata/1/paa/US600 COMB.pap:US-10-675-685-7  
45: /cgn2\_6/ptodata/1/paa/US601 COMB.pap:US-10-675-685-7  
46: /cgn2\_6/ptodata/1/paa/US602 COMB.pap:US-10-675-685-7  
47: /cgn2\_6/ptodata/1/paa/US603 COMB.pap:US-10-675-685-7  
48: /cgn2\_6/ptodata/1/paa/US604 COMB.pap:US-10-675-685-7  
49: /cgn2\_6/ptodata/1/paa/US605 COMB.pap:US-10-675-685-7  
50: /cgn2\_6/ptodata/1/paa/US606 COMB.pap:US-10-675-685-7  
51: /cgn2\_6/ptodata/1/paa/US607 COMB.pap:US-10-675-685-7

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	14	7.9	19	36	US-10-675-685-7 Sequence 7, Appli

#### ALIGNMENTS

RESULT 1  
US-10-675-685-7  
; Sequence 7, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PR0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; PRIOR FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 7  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-7

Query Match 7.9%; Score 14; DB 36; Length 19;  
Best Local Similarity 28.6%; Pred. No. 0;  
Matches 2; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 28 VALPSRW 34  
Db 11 LAILAGW 17

Search completed: February 3, 2006, 15:17:20  
Job time : 0.001 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:17:20 ; Search time 0.001 Seconds  
(without alignments)  
0.380 Million cell updates/sec

Title: US-10-675-685-18

Perfect score: 105  
Sequence: 1 GQNNPAIAGGIVLSPAYYG 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 19 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 2 summaries

Database : Pending Patents AA Main:US-10-675-685-7  
1: /cgn2\_6/ptodata/1/paa/PCTUS COMB.pap:US-10-675-685-7  
2: /cgn2\_6/ptodata/1/paa/US066 COMB.pap:US-10-675-685-7  
3: /cgn2\_6/ptodata/1/paa/US073 COMB.pap:US-10-675-685-7  
4: /cgn2\_6/ptodata/1/paa/US074 COMB.pap:US-10-675-685-7  
5: /cgn2\_6/ptodata/1/paa/US075 COMB.pap:US-10-675-685-7  
6: /cgn2\_6/ptodata/1/paa/US076 COMB.pap:US-10-675-685-7  
7: /cgn2\_6/ptodata/1/paa/US077 COMB.pap:US-10-675-685-7  
8: /cgn2\_6/ptodata/1/paa/US078 COMB.pap:US-10-675-685-7  
9: /cgn2\_6/ptodata/1/paa/US079 COMB.pap:US-10-675-685-7  
10: /cgn2\_6/ptodata/1/paa/US080 COMB.pap:US-10-675-685-7  
11: /cgn2\_6/ptodata/1/paa/US081 COMB.pap:US-10-675-685-7  
12: /cgn2\_6/ptodata/1/paa/US082 COMB.pap:US-10-675-685-7  
13: /cgn2\_6/ptodata/1/paa/US083 COMB.pap:US-10-675-685-7  
14: /cgn2\_6/ptodata/1/paa/US084 COMB.pap:US-10-675-685-7  
15: /cgn2\_6/ptodata/1/paa/US085 COMB.pap:US-10-675-685-7  
16: /cgn2\_6/ptodata/1/paa/US086 COMB.pap:US-10-675-685-7  
17: /cgn2\_6/ptodata/1/paa/US087 COMB.pap:US-10-675-685-7  
18: /cgn2\_6/ptodata/1/paa/US088 COMB.pap:US-10-675-685-7  
19: /cgn2\_6/ptodata/1/paa/US089 COMB.pap:US-10-675-685-7  
20: /cgn2\_6/ptodata/1/paa/US090 COMB.pap:US-10-675-685-7  
21: /cgn2\_6/ptodata/1/paa/US091 COMB.pap:US-10-675-685-7  
22: /cgn2\_6/ptodata/1/paa/US092 COMB.pap:US-10-675-685-7  
23: /cgn2\_6/ptodata/1/paa/US093 COMB.pap:US-10-675-685-7  
24: /cgn2\_6/ptodata/1/paa/US094 COMB.pap:US-10-675-685-7  
25: /cgn2\_6/ptodata/1/paa/US095 COMB.pap:US-10-675-685-7  
26: /cgn2\_6/ptodata/1/paa/US096 COMB.pap:US-10-675-685-7  
27: /cgn2\_6/ptodata/1/paa/US097 COMB.pap:US-10-675-685-7  
28: /cgn2\_6/ptodata/1/paa/US098 COMB.pap:US-10-675-685-7  
29: /cgn2\_6/ptodata/1/paa/US099 COMB.pap:US-10-675-685-7  
30: /cgn2\_6/ptodata/1/paa/US100 COMB.pap:US-10-675-685-7  
31: /cgn2\_6/ptodata/1/paa/US101 COMB.pap:US-10-675-685-7  
32: /cgn2\_6/ptodata/1/paa/US102 COMB.pap:US-10-675-685-7  
33: /cgn2\_6/ptodata/1/paa/US103 COMB.pap:US-10-675-685-7  
34: /cgn2\_6/ptodata/1/paa/US104 COMB.pap:US-10-675-685-7  
35: /cgn2\_6/ptodata/1/paa/US105 COMB.pap:US-10-675-685-7  
36: /cgn2\_6/ptodata/1/paa/US106 COMB.pap:US-10-675-685-7  
37: /cgn2\_6/ptodata/1/paa/US107 COMB.pap:US-10-675-685-7  
38: /cgn2\_6/ptodata/1/paa/US108 COMB.pap:US-10-675-685-7  
39: /cgn2\_6/ptodata/1/paa/US109 COMB.pap:US-10-675-685-7  
40: /cgn2\_6/ptodata/1/paa/US110 COMB.pap:US-10-675-685-7  
41: /cgn2\_6/ptodata/1/paa/US111 COMB.pap:US-10-675-685-7  
42: /cgn2\_6/ptodata/1/paa/US112 COMB.pap:US-10-675-685-7  
43: /cgn2\_6/ptodata/1/paa/US114 COMB.pap:US-10-675-685-7  
44: /cgn2\_6/ptodata/1/paa/US600 COMB.pap:US-10-675-685-7  
45: /cgn2\_6/ptodata/1/paa/US601 COMB.pap:US-10-675-685-7  
46: /cgn2\_6/ptodata/1/paa/US602 COMB.pap:US-10-675-685-7  
47: /cgn2\_6/ptodata/1/paa/US603 COMB.pap:US-10-675-685-7  
48: /cgn2\_6/ptodata/1/paa/US604 COMB.pap:US-10-675-685-7  
49: /cgn2\_6/ptodata/1/paa/US605 COMB.pap:US-10-675-685-7  
50: /cgn2\_6/ptodata/1/paa/US606 COMB.pap:US-10-675-685-7  
51: /cgn2\_6/ptodata/1/paa/US607 COMB.pap:US-10-675-685-7

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No.	Score	Match	Length	DB	ID	Description
1	20	19.0	19	36	US-10-675-685-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1  
US-10-675-685-7  
; Sequence 7, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; CURRENT FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 7  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-7

Query Match 19.0%; Score 20; DB 36; Length 19;  
Best Local Similarity 80.0%; Pred. No. 0;  
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 6 AIIAG 10  
Db 12 AIIAG 16

Search completed: February 3, 2006, 15:17:21  
Job time : 1 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:09:35 ; Search time 1 Seconds  
(without alignments)  
5.685 Million cell updates/sec

Title: US-10-675-685-3  
Perfect score: 9858  
Sequence: 1 MMCLKILRISLAILAGWALC.....AADCDLDECTCRDPKAEHQ 1791

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 3 seqs, 3174 residues  
Total number of hits satisfying chosen parameters: 3

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 3 summaries

Database : US10675685.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES			
Result No.	Score	Query Match Length DB ID	Description
1	9524	96.6 1770 1	US-10-675-685-10 Sequence 10, Appl
2	7351	74.6 1385 1	US-10-675-685-16 Sequence 16, Appl
3	94	1.0 19 1	US-10-675-685-7 Sequence 7, Appl

ALIGNMENTS

RESULT 1  
US-10-675-685-10  
; Sequence 10, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; CURRENT FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 10  
; LENGTH: 1770  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-10

Query Match 96.6%; Score 9524; DB 1; Length 1770;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1734; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MMCLKILRISLAILAGWALCSANSELGWTRKKSILVEREHLNOVLLEGERCWLGAQVRRPR	60
Db	1	MMCLKILRISLAILAGWALCSANSELGWTRKKSILVEREHLNOVLLEGERCWLGAQVRRPR	60
Qy	61	ASPOHHLFGVYPSRAGNLRPYPVGEQEIHHTRGSKPDTEGNVSLVPPDLTENPAGLRG	120
Db	61	ASPOHHLFGVYPSRAGNLRPYPVGEQEIHHTRGSKPDTEGNVSLVPPDLTENPAGLRG	120
Qy	121	AVEEPAAPWVGDSPIGQSELLGDDDDAYLGNORSKESLGEAGIQKGSAMAAATTTTATFTTL	180
Db	121	AVEEPAAPWVGDSPIGQSELLGDDDDAYLGNORSKESLGEAGIQKGSAMAAATTTTATFTTL	180
Qy	181	NEKPEPOTRGWAKSRORROVWKRAEDGGDSGISSHFQPMKHSILKRVKKSPPRESN	240
Db	181	NEKPEPOTRGWAKSRORROVWKRAEDGGDSGISSHFQPMKHSILKRVKKSPPRESN	240
Qy	241	QNGEGSYREAEFTNSQVGLPILYFSGRRERLLLRPEVLAEIPREAFTEAWVKPEGQON	300
Db	241	QNGEGSYREAEFTNSQVGLPILYFSGRRERLLLRPEVLAEIPREAFTEAWVKPEGQON	300
Qy	301	NPAILIAGVFNCSHTVSDKGWALGIRSGDKGKRDARFPFSLCTDRVKKATILISHRYQ	360
Db	301	NPAILIAGVFNCSHTVSDKGWALGIRSGDKGKRDARFPFSLCTDRVKKATILISHRYQ	360
Qy	361	PGTWTHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDSSEHGHYFR	420
Db	361	PGTWTHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDSSEHGHYFR	420
Qy	421	GHGLTLVFWSTALPQSHFQHSQHSSEEEATDLVLTASPEPVNTWVPRDEKYPRLEV	480
Db	421	GHGLTLVFWSTALPQSHFQHSQHSSEEEATDLVLTASPEPVNTWVPRDEKYPRLEV	480
Qy	481	LQGFEPPEILSPLOPPPLCGQTVCDNVELISQYNGYVPLRGEKVIRYQVYVNI	540
Db	481	LQGFEPPEILSPLOPPPLCGQTVCDNVELISQYNGYVPLRGEKVIRYQVYVNI	540
Qy	541	IYSEEOIRLOHEALNEAFSRYNISWOLSVHOVHNSTLRHVRVLNCEPISKINDHCDPEC	600
Db	541	IYSEEOIRLOHEALNEAFSRYNISWOLSVHOVHNSTLRHVRVLNCEPISKINDHCDPEC	600
Qy	601	EHPLTGYDGDGDCRLQGRICYSNRRDGLCHVECNMNLNDFDGDCCDQVADVRKTCFDPD	660
Db	601	EHPLTGYDGDGDCRLQGRICYSNRRDGLCHVECNMNLNDFDGDCCDQVADVRKTCFDPD	660
Qy	661	SPKRAYMSVKELKEALQLNSTHPLNIFYFASSVREDLAGAATWPDWDXAVTHLGGIVLSPA	720
Db	661	SPKRAYMSVKELKEALQLNSTHPLNIFYFASSVREDLAGAATWPDWDXAVTHLGGIVLSPA	720
Qy	721	YIGMPGHTDTMIHEVGHVGLYHVFVGVSERESCNDCPKETVPSMETGDLCAATAPTCKS	780
Db	721	YIGMPGHTDTMIHEVGHVGLYHVFVGVSERESCNDCPKETVPSMETGDLCAATAPTCKS	780
Qy	781	ELCREPEPTSDTCGFRFPFGAPFTNYMSYTDNDCTDNFTPNQVARMHCYLDLYVQOWTES	840
Db	781	ELCREPEPTSDTCGFRFPFGAPFTNYMSYTDNDCTDNFTPNQVARMHCYLDLYVQOWTES	840
Qy	841	RKPTPIPIPPMWIGQTNKSLTIHWLPPISGVVYDRASGSLCGACTEDGTFRQVYVHTASSR	900
Db	841	RKPTPIPIPPMWIGQTNKSLTIHWLPPISGVVYDRASGSLCGACTEDGTFRQVYVHTASSR	900
Qy	901	RVCDSGGYWTPEAVGPPDQPCPSLQAWSPVHLVHMNMVTPCPTGSCSLELLAQHP	960
Db	901	RVCDSGGYWTPEAVGPPDQPCPSLQAWSPVHLVHMNMVTPCPTGSCSLELLAQHP	960
Qy	961	VQADTLTLWVTSFFMESSQVLFDETLLENKESVHLGPLDTFTCDIPLTIKLHVDGKVSQV	1020
Db	961	VQADTLTLWVTSFFMESSQVLFDETLLENKESVHLGPLDTFTCDIPLTIKLHVDGKVSQV	1020
Qy	1021	KVYTFDERIEIDAALLTSQPHSPCLSGCRPVRYQVLRDPPFASGLPVVYTHSHRKTDVE	1080
Db	1021	KVYTFDERIEIDAALLTSQPHSPCLSGCRPVRYQVLRDPPFASGLPVVYTHSHRKTDVE	1080

1081 VTPGQYQYQVLAAGAGELGASPLNHHGAPYCGDKVSRIGEECCDGLVSGDGS 1140  
 1081 VTPGQYQYQVLAAGAGELGASPLNHHGAPYCGDKVSRIGEECCDGLVSGDGS 1140  
 1141 KVCLEEGFNCVGPSPICMYVEGDI CEPTERTSIVDCGIYTPKGYLDQWATRAYSSHE 1200  
 1141 KVCLEEGFNCVGPSPICMYVEGDI CEPTERTSIVDCGIYTPKGYLDQWATRAYSSHE 1200  
 1201 DKKCPVSLVTGEPSLICTSYHDPDLNHRPLTCWFFCVASENETQDRSEQPGSLKKE 1260  
 1201 DKKCPVSLVTGEPSLICTSYHDPDLNHRPLTCWFFCVASENETQDRSEQPGSLKKE 1260  
 1261 DEVMLKVCFNRPGEARAFIFLTATDGLVPGHQOPTVTLTLDVRGNSHSLGTGLSCQH 1320  
 1261 DEVMLKVCFNRPGEARAFIFLTATDGLVPGHQOPTVTLTLDVRGNSHSLGTGLSCQH 1320  
 1321 NPLIINTHQNVLPHHTSVLPNFSSPRVIGISAVARTSSRIGLSAPSNICISEDEGQNH 1380  
 1321 NPLIINTHQNVLPHHTSVLPNFSSPRVIGISAVARTSSRIGLSAPSNICISEDEGQNH 1380  
 1381 QGQSCIHRPCQKQSCPSLLLDHADVNCISIGPLMKCAITCORGALQASSGOYIRPM 1440  
 1381 QGQSCIHRPCQKQSCPSLLLDHADVNCISIGPLMKCAITCORGALQASSGOYIRPM 1440  
 1441 QKEILLTSSGHWBNDVSCVPCVDPDPSPVNYANFSCSEGTFLKRCISICVPPAKLQ 1500  
 1441 QKEILLTSSGHWBNDVSCVPCVDPDPSPVNYANFSCSEGTFLKRCISICVPPAKLQ 1500  
 1501 GLSPWLTCLEGLWSLPEVYCKLECDAPPILNANALLPHCLQNDHVDGTICKYCKPGY 1560  
 1501 GLSPWLTCLEGLWSLPEVYCKLECDAPPILNANALLPHCLQNDHVDGTICKYCKPGY 1560  
 1561 YVAESAEGKVNKLLKIQCLEGGIWEQSGCIPVVECEPPPPVFEQMYECTNGFSLDSQCVL 1620  
 1561 YVAESAEGKVNKLLKIQCLEGGIWEQSGCIPVVECEPPPPVFEQMYECTNGFSLDSQCVL 1620  
 1621 NCNEREKPLILCTKEGLWTOEPKLCENLQCEGCPPPPSSELSNVEYKCEQYIGAVCSPL 1680  
 1621 NCNEREKPLILCTKEGLWTOEPKLCENLQCEGCPPPPSSELSNVEYKCEQYIGAVCSPL 1680  
 1681 CVIPSPDVMPLPENITADTLEHMEPVKVQSVICTGRQWHPDPVLVHC1QSCE 1734  
 1681 CVIPSPDVMPLPENITADTLEHMEPVKVQSVICTGRQWHPDPVLVHC1QSCE 1734

RESULT 2  
 US-10-675-695-16  
 ; Sequence 16, Application US/10675685  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gu, Yizhong  
 ; APPLICANT: Shannon, Mark  
 ; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
 ; FILE REFERENCE: PB0114  
 ; CURRENT APPLICATION NUMBER: US/10/675.685  
 ; PRIOR FILING DATE: 2003-09-30  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: US 60/236,359  
 ; PRIOR FILING DATE: 2000-09-27  
 ; NUMBER OF SEQ ID NOS: 1881  
 ; SOFTWARE: Aecmica Sequence Listing Engine  
 ; SEQ ID NO 16  
 ; LENGTH: 1385  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-675-695-16

Query Match 74.6%; Score 7351; DB 1; Length 1385;  
 Best Local Similarity 76.9%; Pred. No. 0;  
 Matches 1377; Conservative 1; Mismatches 7; Indels 406; Gaps 1;

1 MMCLKILRISLAILAGWALCSANSELGWTRKKSILVEREHLNQVLLBEGERCWLCAKVRPR 60  
 61 ASPQHILFGVYPSRAGNYLRYPVGBQEIHHTGRSKPDTGNAVSLVPPDLTENPAGLRG 120  
 61 ASPQHILFGVYPSRAGNYLRYPVGBQEIHHTGRSKPDTGNAVSLVPPDLTENPAGLRG 120  
 121 AVPEPAAPWVGDSPIGQSELLGDDDAYLGNQRKESLGEAGIQKGSMAATTTTATITTL 180  
 121 AVPEPAAPWVGDSPIGQSELLGDDDAYLGNQRKESLGEAGIQKGSMAATTTTATITTL 180  
 181 NEKPETQREGWAKSROROVWKRRAEDGGDSGSISSHFOFPWPKHSLKHVKKSPPEESN 240  
 181 NEKPETQREGWAKSROROVWKRRAEDGGDSGSISSHFOFPWPKHSLKHVKKSPPEESN 240  
 241 QNGEGSYREAEFTNSQVGLPILYFSGRRERLLRPEVLAETPREAFTVBAWYKPEGQN 300  
 241 QNGEGSYREAEFTNSQVGLPILYFSGRRERLLRPEVLAETPREAFTVBAWYKPEGQN 300  
 301 NPALIAGVFNCSTHTVSDKGWALGIRSGDKGRDARFFESLCTDRVKKATILLISHRYQ 360  
 301 NPALIA----- 306  
 361 PGTWTHVAATYDGRHMALYVDGTOVASSLDQSGPLNSPFMASCRSLLLLGGDSRSDGHYFR 420  
 307 ----- 306  
 421 GHGLTLVFNWSTALPQSHFQHSQHSSEBEATDLVLTASFEVNTWVPRDEKYPRLV 480  
 307 ----- 306  
 481 LQGFEPETILSPLOPPLCQQTCDNVELLISQYNGWPLRGEKVIROYVNI CDDEGLNP 540  
 307 ----- 306  
 541 IVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLHRVWLVNCEPSKIGNDHCDPEC 600  
 307 ----- 306  
 601 EHPLTGYDGDCKLQRCYCSWNRDRDGLCHVECNMNLNDFDGGCCDDPOADVKTCTFDDP 660  
 307 ----- 306  
 661 SPKRAYMSVKELKEALQNLNSTHFLNIYFASSVREDLAGAATWPDWDKDAVTHLGGIVLSPA 720  
 307 -----GGIVLSPA 314  
 721 YYGMPGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKETVPSMETGDLCADTAPTPKS 780  
 315 YYGMPGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKETVPSMETGDLCADTAPTPKS 374  
 781 ELCRBPEPTSDTCGTRFPAGPTNMSYTDNDCTDNFTPNQVARMHCYLDLYVQWTTES 840  
 375 ELCRBPEPTSDTCGTRFPAGPTNMSYTDNDCTDNFTPNQVARMHCYLDLYVQWTTES 434  
 841 RKPTPIPPMWIGQTNKSLTIHMLPPIGVYVDRASGLCGACTEDGTFRQVYHTASSR 900  
 435 RKPTPIPPMWIGQTNKSLTIHMLPPIGVYVDRASGLCGACTEDGTFRQVYHTASSR 494  
 901 RVCDSGGYWTPEEAVGPPDQPCFPSLQAWSPEVHL YHNMNTVPCPTEGCSLELLFQHP 960  
 495 RVCDSGGYWTPEEAVGPPDQPCFPSLQAWSPEVHL YHNMNTVPCPTEGCSLELLFQHP 554  
 961 VQADTLTLWVTSFPMESSQVLFDTTEILLENKESVHLGPLDTFCDIPLTIKLVHVGKVS 1020  
 555 VQADTLTLWVTSFPMESSQVLFDTTEILLENKESVHLGPLDTFCDIPLTIKLVHVGKVS 614  
 1021 KYVTEDERIEIDAALLTSOPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTDVE 1080  
 615 KYVTEDERIEIDAALLTSOPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTDVE 674  
 1081 VTPGQYQYQVLAAGAGELGASPLNHHGAPYCGDKVSRIGEECCDGLVSGDGS 1140  
 675 VTPGQYQYQVLAAGAGELGASPLNHHGAPYCGDKVSRIGEECCDGLVSGDGS 734

1 MMCLKILRISLAILAGWALCSANSELGWTRKKSILVEREHLNQVLLBEGERCWLCAKVRPR 60

QY	1141	KVCELBEGFNCVCEPSLCVMEYEGDICEPERKTSIVDCGIYTPKGYLDQWATRAYSSHE	1200
Db	735		
QY	1201	DKKCPVSLVTGPHSLICTSYHPDLNHRPLTGWPCVASENETODDRSEQEGSLKKE	1260
Db	795		
QY	1261	DEWLKVCNRPGEARAIFFLTDTGLVGEHQOQPTVTLTLDVVRGNSHSLGTGYGLSCQH	1320
Db	855		
QY	1321	NPLIINVTHQNVLFHHTTSLVLPNFPSSPRVGISAVALTSSRIGLSAPSNCISEDEGQNH	1380
Db	915		
QY	1381	QGQSCIHRPCGKQDCPSLILDLHADVVNCTSIGPGLMKCAITCQGFALQASSGQYIRPM	1440
Db	975		
QY	1441	QKEILLTCSGHWQNVSCLPVDCGVPDPSLVNANFSCSEGTKFLKRCISICVPPAKLQ	1500
Db	1035		
QY	1501	GLSPWLTCLDGLWSLPEVYCKLECDAPPTIILNANLLPHCLQDNHDTVGTICKYCKPGY	1560
Db	1095		
QY	1561	YVAESAEGKVRNKLKIQCLEGGIWEQSGCIPVCEPPPPVPEGMVECTNGFSLDSQCVL	1620
Db	1155		
QY	1621	NCNQEREKLPILCTKEGLTQBFKLCENIQEGCPCPPPPSBLNSVEYKCEQYIGAVCSPL	1680
Db	1215		
QY	1681	CVIPSPDPVLPENITADTLEHWMPEVKQSVCTGRROWHPDPVLVHICIQCEPFOANG	1740
Db	1275		
QY	1741	WCDTINNRAYCHYDGGDCSSLTSSKKVIPFAADCDDCTCRDPKAEENQ	1791
Db	1335		

RESULT 3  
US-10-675-685-7  
; Sequence 7, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; CURRENT FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 7  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-7

Query Match 1.0%; Score 94; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 NMCLKILIRISLAILAGNAL 19

Db 1 MMCLKILIRISLAILAGNAL 19  
Search completed: February 3, 2006, 15:09:43  
Job time : 4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:10:59 ; Search time 0.0119723 Seconds  
(without alignments)  
2.842 Million cell updates/sec

Title: US-10-675-685-7

Perfect score: 94

Sequence: 1 MMCLKILRISLAILAGWAL 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 1791 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1 summaries

Database : Pending Patents AA Main:US-10-675-685-3  
1: /cgn2\_6/ptodata/1/paa/PCTUS\_COMB.pap:US-10-675-685-3  
2: /cgn2\_6/ptodata/1/paa/US066\_COMB.pap:US-10-675-685-3  
3: /cgn2\_6/ptodata/1/paa/US073\_COMB.pap:US-10-675-685-3  
4: /cgn2\_6/ptodata/1/paa/US074\_COMB.pap:US-10-675-685-3  
5: /cgn2\_6/ptodata/1/paa/US075\_COMB.pap:US-10-675-685-3  
6: /cgn2\_6/ptodata/1/paa/US076\_COMB.pap:US-10-675-685-3  
7: /cgn2\_6/ptodata/1/paa/US077\_COMB.pap:US-10-675-685-3  
8: /cgn2\_6/ptodata/1/paa/US078\_COMB.pap:US-10-675-685-3  
9: /cgn2\_6/ptodata/1/paa/US079\_COMB.pap:US-10-675-685-3  
10: /cgn2\_6/ptodata/1/paa/US080\_COMB.pap:US-10-675-685-3  
11: /cgn2\_6/ptodata/1/paa/US081\_COMB.pap:US-10-675-685-3  
12: /cgn2\_6/ptodata/1/paa/US082\_COMB.pap:US-10-675-685-3  
13: /cgn2\_6/ptodata/1/paa/US083\_COMB.pap:US-10-675-685-3  
14: /cgn2\_6/ptodata/1/paa/US084\_COMB.pap:US-10-675-685-3  
15: /cgn2\_6/ptodata/1/paa/US085\_COMB.pap:US-10-675-685-3  
16: /cgn2\_6/ptodata/1/paa/US086\_COMB.pap:US-10-675-685-3  
17: /cgn2\_6/ptodata/1/paa/US087\_COMB.pap:US-10-675-685-3  
18: /cgn2\_6/ptodata/1/paa/US088\_COMB.pap:US-10-675-685-3  
19: /cgn2\_6/ptodata/1/paa/US089\_COMB.pap:US-10-675-685-3  
20: /cgn2\_6/ptodata/1/paa/US090\_COMB.pap:US-10-675-685-3  
21: /cgn2\_6/ptodata/1/paa/US091\_COMB.pap:US-10-675-685-3  
22: /cgn2\_6/ptodata/1/paa/US092\_COMB.pap:US-10-675-685-3  
23: /cgn2\_6/ptodata/1/paa/US093\_COMB.pap:US-10-675-685-3  
24: /cgn2\_6/ptodata/1/paa/US094\_COMB.pap:US-10-675-685-3  
25: /cgn2\_6/ptodata/1/paa/US095\_COMB.pap:US-10-675-685-3  
26: /cgn2\_6/ptodata/1/paa/US096\_COMB.pap:US-10-675-685-3  
27: /cgn2\_6/ptodata/1/paa/US097\_COMB.pap:US-10-675-685-3  
28: /cgn2\_6/ptodata/1/paa/US098\_COMB.pap:US-10-675-685-3  
29: /cgn2\_6/ptodata/1/paa/US099\_COMB.pap:US-10-675-685-3  
30: /cgn2\_6/ptodata/1/paa/US100\_COMB.pap:US-10-675-685-3  
31: /cgn2\_6/ptodata/1/paa/US101\_COMB.pap:US-10-675-685-3  
32: /cgn2\_6/ptodata/1/paa/US102\_COMB.pap:US-10-675-685-3  
33: /cgn2\_6/ptodata/1/paa/US103\_COMB.pap:US-10-675-685-3  
34: /cgn2\_6/ptodata/1/paa/US104\_COMB.pap:US-10-675-685-3  
35: /cgn2\_6/ptodata/1/paa/US105\_COMB.pap:US-10-675-685-3  
36: /cgn2\_6/ptodata/1/paa/US106\_COMB.pap:US-10-675-685-3  
37: /cgn2\_6/ptodata/1/paa/US107\_COMB.pap:US-10-675-685-3  
38: /cgn2\_6/ptodata/1/paa/US108\_COMB.pap:US-10-675-685-3  
39: /cgn2\_6/ptodata/1/paa/US109\_COMB.pap:US-10-675-685-3  
40: /cgn2\_6/ptodata/1/paa/US110\_COMB.pap:US-10-675-685-3  
41: /cgn2\_6/ptodata/1/paa/US111\_COMB.pap:US-10-675-685-3  
42: /cgn2\_6/ptodata/1/paa/US112\_COMB.pap:US-10-675-685-3  
43: /cgn2\_6/ptodata/1/paa/US114\_COMB.pap:US-10-675-685-3

44: /cgn2\_6/ptodata/1/paa/US600\_COMB.pap:US-10-675-685-3  
45: /cgn2\_6/ptodata/1/paa/US601\_COMB.pap:US-10-675-685-3  
46: /cgn2\_6/ptodata/1/paa/US602\_COMB.pap:US-10-675-685-3  
47: /cgn2\_6/ptodata/1/paa/US603\_COMB.pap:US-10-675-685-3  
48: /cgn2\_6/ptodata/1/paa/US604\_COMB.pap:US-10-675-685-3  
49: /cgn2\_6/ptodata/1/paa/US605\_COMB.pap:US-10-675-685-3  
50: /cgn2\_6/ptodata/1/paa/US606\_COMB.pap:US-10-675-685-3  
51: /cgn2\_6/ptodata/1/paa/US607\_COMB.pap:US-10-675-685-3

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	94	100.0	1791	36	US-10-675-685-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1  
US-10-675-685-3  
; Sequence 3, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; CURRENT FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 3  
; LENGTH: 1791  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-3

Query Match 100.0%; Score 94; DB 36; Length 1791;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MMCLKILRISLAILAGWAL 19  
Db 1 MMCLKILRISLAILAGWAL 19  
|||||  
|||||

Search completed: February 3, 2006, 15:11:01  
Job time : 0.0119723 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:10:59 ; Search time 1.11531 Seconds  
(without alignments)  
2.842 Million cell updates/sec

Title: US-10-675-685-10

Perfect score: 9702

Sequence: 1 MMCLKILRISLAILAGWALC.....HTYATYLSQKIVALPSRWLV 1770

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 1791 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1 summaries

Database : Pending Patents AA:Main:US-10-675-685-3

1: /cgn2\_6/ptodata/1/paa/US073 COMB.pap:US-10-675-685-3  
2: /cgn2\_6/ptodata/1/paa/US066 COMB.pap:US-10-675-685-3  
3: /cgn2\_6/ptodata/1/paa/US073 COMB.pap:US-10-675-685-3  
4: /cgn2\_6/ptodata/1/paa/US074 COMB.pap:US-10-675-685-3  
5: /cgn2\_6/ptodata/1/paa/US075 COMB.pap:US-10-675-685-3  
6: /cgn2\_6/ptodata/1/paa/US076 COMB.pap:US-10-675-685-3  
7: /cgn2\_6/ptodata/1/paa/US077 COMB.pap:US-10-675-685-3  
8: /cgn2\_6/ptodata/1/paa/US078 COMB.pap:US-10-675-685-3  
9: /cgn2\_6/ptodata/1/paa/US079 COMB.pap:US-10-675-685-3  
10: /cgn2\_6/ptodata/1/paa/US080 COMB.pap:US-10-675-685-3  
11: /cgn2\_6/ptodata/1/paa/US081 COMB.pap:US-10-675-685-3  
12: /cgn2\_6/ptodata/1/paa/US082 COMB.pap:US-10-675-685-3  
13: /cgn2\_6/ptodata/1/paa/US083 COMB.pap:US-10-675-685-3  
14: /cgn2\_6/ptodata/1/paa/US084 COMB.pap:US-10-675-685-3  
15: /cgn2\_6/ptodata/1/paa/US085 COMB.pap:US-10-675-685-3  
16: /cgn2\_6/ptodata/1/paa/US086 COMB.pap:US-10-675-685-3  
17: /cgn2\_6/ptodata/1/paa/US087 COMB.pap:US-10-675-685-3  
18: /cgn2\_6/ptodata/1/paa/US088 COMB.pap:US-10-675-685-3  
19: /cgn2\_6/ptodata/1/paa/US089 COMB.pap:US-10-675-685-3  
20: /cgn2\_6/ptodata/1/paa/US090 COMB.pap:US-10-675-685-3  
21: /cgn2\_6/ptodata/1/paa/US091 COMB.pap:US-10-675-685-3  
22: /cgn2\_6/ptodata/1/paa/US092 COMB.pap:US-10-675-685-3  
23: /cgn2\_6/ptodata/1/paa/US093 COMB.pap:US-10-675-685-3  
24: /cgn2\_6/ptodata/1/paa/US094 COMB.pap:US-10-675-685-3  
25: /cgn2\_6/ptodata/1/paa/US095 COMB.pap:US-10-675-685-3  
26: /cgn2\_6/ptodata/1/paa/US096 COMB.pap:US-10-675-685-3  
27: /cgn2\_6/ptodata/1/paa/US097 COMB.pap:US-10-675-685-3  
28: /cgn2\_6/ptodata/1/paa/US098 COMB.pap:US-10-675-685-3  
29: /cgn2\_6/ptodata/1/paa/US099 COMB.pap:US-10-675-685-3  
30: /cgn2\_6/ptodata/1/paa/US100 COMB.pap:US-10-675-685-3  
31: /cgn2\_6/ptodata/1/paa/US101 COMB.pap:US-10-675-685-3  
32: /cgn2\_6/ptodata/1/paa/US102 COMB.pap:US-10-675-685-3  
33: /cgn2\_6/ptodata/1/paa/US103 COMB.pap:US-10-675-685-3  
34: /cgn2\_6/ptodata/1/paa/US104 COMB.pap:US-10-675-685-3  
35: /cgn2\_6/ptodata/1/paa/US105 COMB.pap:US-10-675-685-3  
36: /cgn2\_6/ptodata/1/paa/US106 COMB.pap:US-10-675-685-3  
37: /cgn2\_6/ptodata/1/paa/US107 COMB.pap:US-10-675-685-3  
38: /cgn2\_6/ptodata/1/paa/US108 COMB.pap:US-10-675-685-3  
39: /cgn2\_6/ptodata/1/paa/US109 COMB.pap:US-10-675-685-3  
40: /cgn2\_6/ptodata/1/paa/US110 COMB.pap:US-10-675-685-3  
41: /cgn2\_6/ptodata/1/paa/US111 COMB.pap:US-10-675-685-3  
42: /cgn2\_6/ptodata/1/paa/US112 COMB.pap:US-10-675-685-3  
43: /cgn2\_6/ptodata/1/paa/US114 COMB.pap:US-10-675-685-3  
44: /cgn2\_6/ptodata/1/paa/US600 COMB.pap:US-10-675-685-3  
45: /cgn2\_6/ptodata/1/paa/US601 COMB.pap:US-10-675-685-3  
46: /cgn2\_6/ptodata/1/paa/US602 COMB.pap:US-10-675-685-3  
47: /cgn2\_6/ptodata/1/paa/US603 COMB.pap:US-10-675-685-3  
48: /cgn2\_6/ptodata/1/paa/US604 COMB.pap:US-10-675-685-3  
49: /cgn2\_6/ptodata/1/paa/US605 COMB.pap:US-10-675-685-3  
50: /cgn2\_6/ptodata/1/paa/US606 COMB.pap:US-10-675-685-3  
51: /cgn2\_6/ptodata/1/paa/US607 COMB.pap:US-10-675-685-3

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No.	Score	Match	Length	DB	ID	Description
1	9524	98.2	1791	36	US-10-675-685-3	Sequence 3, Appli
ALIGNMENTS						
RESULT 1						
US-10-675-685-3						
; Sequence 3, Application US/10675685						
; GENERAL INFORMATION:						
; APPLICANT: Gu, Yizhong						
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E						
; FILE REFERENCE: PB0114						
; CURRENT APPLICATION NUMBER: US 10/675,685						
; CURRENT FILING DATE: 2003-09-30						
; PRIOR APPLICATION NUMBER: US 60/207,456						
; PRIOR FILING DATE: 2000-05-26						
; PRIOR APPLICATION NUMBER: US 60/236,359						
; PRIOR FILING DATE: 2000-09-27						
; NUMBER OF SEQ ID NOS: 1881						
; SOFTWARE: Aomica Sequence Listing Engine						
; SEQ ID NO 3						
; LENGTH: 1791						
; TYPE: PRT						
; ORGANISM: Homo sapiens						
US-10-675-685-3						
Query Match 98.2%; Score 9524; DB 36; Length 1791;						
Best Local Similarity 100.0%; Pred. No. 0;						
Matches 1734; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy	1	MMCLKILRLSLAILAGWALCSANSELGWTWKSLVEREHLNQVLLGERCWLGAQVRRPR	60			
Db	1	MMCLKILRLSLAILAGWALCSANSELGWTWKSLVEREHLNQVLLGERCWLGAQVRRPR	60			
Qy	61	ASPHQLFGVYPSRAGNYLRYPVGVQEIHTHGRSKPDTEGNVSLVPPDLTENPAGLRG	120			
Db	61	ASPHQLFGVYPSRAGNYLRYPVGVQEIHTHGRSKPDTEGNVSLVPPDLTENPAGLRG	120			
Qy	121	AVEEPAAPWGDSPIGOSLGGDDAYLGNQRKESLGEAGIKGSAMAATTITTAFTTL	180			
Db	121	AVEEPAAPWGDSPIGOSLGGDDAYLGNQRKESLGEAGIKGSAMAATTITTAFTTL	180			
Qy	181	NEPKETQRRGWAKSRQROVWKRRAEDGSGISSHFQFPWKSLKHKRVKSPPEEN	240			
Db	181	NEPKETQRRGWAKSRQROVWKRRAEDGSGISSHFQFPWKSLKHKRVKSPPEEN	240			
Qy	241	QNGGEGSYREAEFTNSQVGLPILYFSGRRERLLLRPEVLAEIPREAPTVKATILISHRYQ	300			
Db	241	QNGGEGSYREAEFTNSQVGLPILYFSGRRERLLLRPEVLAEIPREAPTVKATILISHRYQ	300			
Qy	301	NPAILIAGVFNCSHTVSDKGMALIGSKDKRDARFFSLCTDRVKKATILISHRYQ	360			
Db	301	NPAILIAGVFNCSHTVSDKGMALIGSKDKRDARFFSLCTDRVKKATILISHRYQ	360			
Qy	361	PGTWTWVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASCRLSLGDSSEDDHYFR	420			
Db	361	PGTWTWVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASCRLSLGDSSEDDHYFR	420			
Qy	421	GHGLTTLVFWSTALPQSHFQHSQSSSEEEATDLVLTASPEPNTWVPRDEKYPRELEV	480			
Db	421	GHGLTTLVFWSTALPQSHFQHSQSSSEEEATDLVLTASPEPNTWVPRDEKYPRELEV	480			
Qy	481	LOQFEPEPELTLSPLOPPLCGQTVCDNVLLISQVNGYWPFLRGEKVIYQVNNI	540			
Db	481	LOQFEPEPELTLSPLOPPLCGQTVCDNVLLISQVNGYWPFLRGEKVIYQVNNI	540			
Qy	541	IVSEEQIRLQHEALNEAFSRYNISWQLSVHVNSTLRHRVVLVNCPEPSKIGNHCDPEC	600			
Db	541	IVSEEQIRLQHEALNEAFSRYNISWQLSVHVNSTLRHRVVLVNCPEPSKIGNHCDPEC	600			



```
Qy 601 EHLPTGYDGGCDKRLQRCYSWNRDGLCHVECNMNLNDFDGDCCDPQVADVRKTCFDPD 660
Db 601 EHLPTGYDGGCDKRLQRCYSWNRDGLCHVECNMNLNDFDGDCCDPQVADVRKTCFDPD 660
Qy 661 SPKRAYMSVKELKEALQLNSTHPLNTYFASSVREDLAGAATWPDWDKAVTHLGGIVLSPA 720
Db 661 SPKRAYMSVKELKEALQLNSTHPLNTYFASSVREDLAGAATWPDWDKAVTHLGGIVLSPA 720
Qy 721 YGMPGHTDTMIEVGHVNLGLVHVFVGVSERESNDPCKETVPSMETGDLCAATATPKS 780
Db 721 YGMPGHTDTMIEVGHVNLGLVHVFVGVSERESNDPCKETVPSMETGDLCAATATPKS 780
Qy 781 ELCREPEPTSDTCGFRFPAGPTNTYMSYTDNCTDNFTPNQVARMCHCYLDLYVQWMTES 840
Db 781 ELCREPEPTSDTCGFRFPAGPTNTYMSYTDNCTDNFTPNQVARMCHCYLDLYVQWMTES 840
Qy 841 RKPTPIPIPMWIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQVHTASSR 900
Db 841 RKPTPIPIPMWIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQVHTASSR 900
Qy 901 RVCDSGGYWTPEAGVPDVPDQCEPSLOAWSPEVHLHYHNMNTVPCPTGCSLELLFQHP 960
Db 901 RVCDSGGYWTPEAGVPDVPDQCEPSLOAWSPEVHLHYHNMNTVPCPTGCSLELLFQHP 960
Qy 961 VQADTLTLVWTSFFMBSQVLFDTEILLENKESVHLGPILOTFCDIPLITIKLHVDPKVS 1020
Db 961 VQADTLTLVWTSFFMBSQVLFDTEILLENKESVHLGPILOTFCDIPLITIKLHVDPKVS 1020
Qy 1021 KYVTFDERLEIDAALTSOPHPLSCGCRPVQVLRDPPFASGLPVVTHSHRKEFTDVE 1080
Db 1021 KYVTFDERLEIDAALTSOPHPLSCGCRPVQVLRDPPFASGLPVVTHSHRKEFTDVE 1080
Qy 1081 VTPGQMYQVLAELAGGELGEASPLPLNHIGHAPYCGDKGVSRLEGCEDDGDLVSDGCS 1140
Db 1081 VTPGQMYQVLAELAGGELGEASPLPLNHIGHAPYCGDKGVSRLEGCEDDGDLVSDGCS 1140
Qy 1141 KYCELEEGNCGVBSLCHMYGSDGICEPFRKTSIVDCGITYPKYGLQWATRAYSSHE 1200
Db 1141 KYCELEEGNCGVBSLCHMYGSDGICEPFRKTSIVDCGITYPKYGLQWATRAYSSHE 1200
Qy 1201 DKKKCPVSLVTEPSHSLICTSYHPDLPNHRPLTGMPFPCVASENETODDSEPEGSLLKE 1260
Db 1201 DKKKCPVSLVTEPSHSLICTSYHPDLPNHRPLTGMPFPCVASENETODDSEPEGSLLKE 1260
Qy 1261 DEVWLKVCNRPGEARAIFILTTDGLVPEGHQQTIVTLYLTDVRSNHSLSGTYGLSCQH 1320
Db 1261 DEVWLKVCNRPGEARAIFILTTDGLVPEGHQQTIVTLYLTDVRSNHSLSGTYGLSCQH 1320
Qy 1321 NPLIINVTTHQNVLFPHHTTSVLNPFSSPRVGISAVALRTSSRIGLSAPNCISDEBQNH 1380
Db 1321 NPLIINVTTHQNVLFPHHTTSVLNPFSSPRVGISAVALRTSSRIGLSAPNCISDEBQNH 1380
Qy 1381 QGQSCIHRCGKQDSCPSLLLDHADVNVCTSIGRGLMKCAITCORGALQASGGQYIRPM 1440
Db 1381 QGQSCIHRCGKQDSCPSLLLDHADVNVCTSIGRGLMKCAITCORGALQASGGQYIRPM 1440
Qy 1441 QKEILLTCSGSHWDQNSCLPVDGCPDPSLVNYANFSCSEGTGKFKRCSISCVPPAKLQ 1500
Db 1441 QKEILLTCSGSHWDQNSCLPVDGCPDPSLVNYANFSCSEGTGKFKRCSISCVPPAKLQ 1500
Qy 1501 GLSPWLTCLDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHVDGTIKYCKPKGY 1560
Db 1501 GLSPWLTCLDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHVDGTIKYCKPKGY 1560
Qy 1561 YVAESAEGKVRNKLKIKCLEGGIWEQSGCIPVCEPPVPEGVMECTNGFSLSQCVL 1620
Db 1561 YVAESAEGKVRNKLKIKCLEGGIWEQSGCIPVCEPPVPEGVMECTNGFSLSQCVL 1620
Qy 1621 NCNQERELKPLITCKTEGLWTQBFKLCENLQSGCEPPPPSELNSVYKCEGYGIGAVCSPL 1680
Db 1621 NCNQERELKPLITCKTEGLWTQBFKLCENLQSGCEPPPPSELNSVYKCEGYGIGAVCSPL 1680
```

```
Qy 1681 CVIPPSDPVMLPENITADTLEHWMPEVKQSVIVCTGRROMHPDPVLVHCTQSCE 1734
Db 1681 CVIPPSDPVMLPENITADTLEHWMPEVKQSVIVCTGRROMHPDPVLVHCTQSCE 1734
```

Search completed: February 3, 2006, 15:11:01  
Job time : 1.11531 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:10:59 ; Search time 0.872716 Seconds  
(without alignments)  
2.842 Million cell updates/sec

Title: US-10-675-685-16

Perfect score: 7617

Sequence: 1 MMCLKILRISLAILAGWALC.....AADCDLDECTCRDPKAEENQ 1385

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 1791 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1 summaries

Database : Pending Patents\_AA\_Main:US-10-675-685-3

1: /cgn2\_6/ptodata/1/paa/PCTUS\_COMB.pap:US-10-675-685-3  
2: /cgn2\_6/ptodata/1/paa/US066\_COMB.pap:US-10-675-685-3  
3: /cgn2\_6/ptodata/1/paa/US073\_COMB.pap:US-10-675-685-3  
4: /cgn2\_6/ptodata/1/paa/US074\_COMB.pap:US-10-675-685-3  
5: /cgn2\_6/ptodata/1/paa/US075\_COMB.pap:US-10-675-685-3  
6: /cgn2\_6/ptodata/1/paa/US076\_COMB.pap:US-10-675-685-3  
7: /cgn2\_6/ptodata/1/paa/US077\_COMB.pap:US-10-675-685-3  
8: /cgn2\_6/ptodata/1/paa/US078\_COMB.pap:US-10-675-685-3  
9: /cgn2\_6/ptodata/1/paa/US079\_COMB.pap:US-10-675-685-3  
10: /cgn2\_6/ptodata/1/paa/US080\_COMB.pap:US-10-675-685-3  
11: /cgn2\_6/ptodata/1/paa/US081\_COMB.pap:US-10-675-685-3  
12: /cgn2\_6/ptodata/1/paa/US082\_COMB.pap:US-10-675-685-3  
13: /cgn2\_6/ptodata/1/paa/US083\_COMB.pap:US-10-675-685-3  
14: /cgn2\_6/ptodata/1/paa/US084\_COMB.pap:US-10-675-685-3  
15: /cgn2\_6/ptodata/1/paa/US085\_COMB.pap:US-10-675-685-3  
16: /cgn2\_6/ptodata/1/paa/US086\_COMB.pap:US-10-675-685-3  
17: /cgn2\_6/ptodata/1/paa/US087\_COMB.pap:US-10-675-685-3  
18: /cgn2\_6/ptodata/1/paa/US088\_COMB.pap:US-10-675-685-3  
19: /cgn2\_6/ptodata/1/paa/US089\_COMB.pap:US-10-675-685-3  
20: /cgn2\_6/ptodata/1/paa/US090\_COMB.pap:US-10-675-685-3  
21: /cgn2\_6/ptodata/1/paa/US091\_COMB.pap:US-10-675-685-3  
22: /cgn2\_6/ptodata/1/paa/US092\_COMB.pap:US-10-675-685-3  
23: /cgn2\_6/ptodata/1/paa/US093\_COMB.pap:US-10-675-685-3  
24: /cgn2\_6/ptodata/1/paa/US094\_COMB.pap:US-10-675-685-3  
25: /cgn2\_6/ptodata/1/paa/US095\_COMB.pap:US-10-675-685-3  
26: /cgn2\_6/ptodata/1/paa/US096\_COMB.pap:US-10-675-685-3  
27: /cgn2\_6/ptodata/1/paa/US097\_COMB.pap:US-10-675-685-3  
28: /cgn2\_6/ptodata/1/paa/US098\_COMB.pap:US-10-675-685-3  
29: /cgn2\_6/ptodata/1/paa/US099\_COMB.pap:US-10-675-685-3  
30: /cgn2\_6/ptodata/1/paa/US100\_COMB.pap:US-10-675-685-3  
31: /cgn2\_6/ptodata/1/paa/US101\_COMB.pap:US-10-675-685-3  
32: /cgn2\_6/ptodata/1/paa/US102\_COMB.pap:US-10-675-685-3  
33: /cgn2\_6/ptodata/1/paa/US103\_COMB.pap:US-10-675-685-3  
34: /cgn2\_6/ptodata/1/paa/US104\_COMB.pap:US-10-675-685-3  
35: /cgn2\_6/ptodata/1/paa/US105\_COMB.pap:US-10-675-685-3  
36: /cgn2\_6/ptodata/1/paa/US106\_COMB.pap:US-10-675-685-3

37: /cgn2\_6/ptodata/1/paa/US107\_COMB.pap:US-10-675-685-3  
38: /cgn2\_6/ptodata/1/paa/US108\_COMB.pap:US-10-675-685-3  
39: /cgn2\_6/ptodata/1/paa/US109\_COMB.pap:US-10-675-685-3  
40: /cgn2\_6/ptodata/1/paa/US110\_COMB.pap:US-10-675-685-3  
41: /cgn2\_6/ptodata/1/paa/US111\_COMB.pap:US-10-675-685-3  
42: /cgn2\_6/ptodata/1/paa/US112\_COMB.pap:US-10-675-685-3  
43: /cgn2\_6/ptodata/1/paa/US114\_COMB.pap:US-10-675-685-3  
44: /cgn2\_6/ptodata/1/paa/US600\_COMB.pap:US-10-675-685-3  
45: /cgn2\_6/ptodata/1/paa/US601\_COMB.pap:US-10-675-685-3  
46: /cgn2\_6/ptodata/1/paa/US602\_COMB.pap:US-10-675-685-3  
47: /cgn2\_6/ptodata/1/paa/US603\_COMB.pap:US-10-675-685-3  
48: /cgn2\_6/ptodata/1/paa/US604\_COMB.pap:US-10-675-685-3  
49: /cgn2\_6/ptodata/1/paa/US605\_COMB.pap:US-10-675-685-3  
50: /cgn2\_6/ptodata/1/paa/US606\_COMB.pap:US-10-675-685-3  
51: /cgn2\_6/ptodata/1/paa/US607\_COMB.pap:US-10-675-685-3

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	7351	96.5	1791	36	US-10-675-685-3 Sequence 3, Appli

## ALIGNMENTS

RESULT 1  
US-10-675-685-3  
; Sequence 3. Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; PRIOR FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 3  
; LENGTH: 1791  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-3

Query Match	Best Local Similarity	Score	Length	DB	Length	1791;
Matches 1377;	Conservative	1;	Mismatches	7;	Indels	406;
Gaps						
QY	1	MMCKILIRISLAILAGWALCSANSELGWTWKSLVERHLNQVLLGEGRCWLGAKVRRPR	60			
DB	1	MMCKILIRISLAILAGWALCSANSELGWTWKSLVERHLNQVLLGEGRCWLGAKVRRPR	60			
QY	61	ASQPHLFGVYPSRAGNYLRYPYVGQEIHTHGRSKPDTGEGNAVSLVPPDLTENPAGLRG	120			
DB	61	ASQPHLFGVYPSRAGNYLRYPYVGQEIHTHGRSKPDTGEGNAVSLVPPDLTENPAGLRG	120			
QY	121	AVEEPAAPVGDSPICQSELLGDDDAYLGNQRKESLGEAGIQKGSMAATTTTALFTTL	180			
DB	121	AVEEPAAPVGDSPICQSELLGDDDAYLGNQRKESLGEAGIQKGSMAATTTTALFTTL	180			
QY	181	NEPKPTQRGWAKSRQRQVWKRRAEDGQDGSIGSHFQWPWKHSLKHGVKKSPPESN	240			
DB	181	NEPKPTQRGWAKSRQRQVWKRRAEDGQDGSIGSHFQWPWKHSLKHGVKKSPPESN	240			

QY	241	QNGGSGSYREAEFTNSQVCLPILYFSGRERHLLRPVLAETPREAFTVEAWKPEGGON	300
DB	241	QNGGSGSYREAEFTNSQVCLPILYFSGRERHLLRPVLAETPREAFTVEAWKPEGGON	300
QY	301	NPALIA-----	306
DB	301	NPALIA-----	306
QY	307	-----	306
DB	307	-----	306
QY	361	PGTWTHTAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDSSEDDGHYFR	420
DB	361	PGTWTHTAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDSSEDDGHYFR	420
QY	307	-----	306
DB	307	-----	306
QY	421	GHLGLTVMFMTALPOSHFQHSQSSSEBEATDLVLTASFEPVNTWVPFRDEKYPRLV	480
DB	421	GHLGLTVMFMTALPOSHFQHSQSSSEBEATDLVLTASFEPVNTWVPFRDEKYPRLV	480
QY	307	-----	306
DB	307	-----	306
QY	481	LOGFEPEPEILSPLOPPLCGQTVCDNVELISQYGYWPLRGEKVIQYQVNVICDDGLNP	540
DB	481	LOGFEPEPEILSPLOPPLCGQTVCDNVELISQYGYWPLRGEKVIQYQVNVICDDGLNP	540
QY	307	-----	306
DB	307	-----	306
QY	541	IVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGNDHCDPEC	600
DB	541	IVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGNDHCDPEC	600
QY	307	-----	306
DB	307	-----	306
QY	601	EHLPTGYDGGDCRLQRCYGMNRRDGLCHVECNMNLNDFDDGDCDPOQVADVKTCTFDP	660
DB	601	EHLPTGYDGGDCRLQRCYGMNRRDGLCHVECNMNLNDFDDGDCDPOQVADVKTCTFDP	660
QY	307	-----	306
DB	307	-----	306
QY	661	SPKRAYMSVKELKEALQANSTHFLNIYPASSVREDLAGAATWPDWDKDAVTHLGGIVLSPA	720
DB	661	SPKRAYMSVKELKEALQANSTHFLNIYPASSVREDLAGAATWPDWDKDAVTHLGGIVLSPA	720
QY	315	YYCMGHTDTMIHEVGHVGLVHFKGVSEKSCNDPCKETVPSMETGDLCAATAPTKS	374
DB	315	YYCMGHTDTMIHEVGHVGLVHFKGVSEKSCNDPCKETVPSMETGDLCAATAPTKS	374
QY	721	YYCMGHTDTMIHEVGHVGLVHFKGVSEKSCNDPCKETVPSMETGDLCAATAPTKS	780
DB	721	YYCMGHTDTMIHEVGHVGLVHFKGVSEKSCNDPCKETVPSMETGDLCAATAPTKS	780
QY	375	ELCREPEPTSDTCGTRFPFAPFTNYSYTDNCTDNFTNQNARMHCYLDLYVQWTES	434
DB	375	ELCREPEPTSDTCGTRFPFAPFTNYSYTDNCTDNFTNQNARMHCYLDLYVQWTES	434
QY	781	ELCREPEPTSDTCGTRFPFAPFTNYSYTDNCTDNFTNQNARMHCYLDLYVQWTES	840
DB	781	ELCREPEPTSDTCGTRFPFAPFTNYSYTDNCTDNFTNQNARMHCYLDLYVQWTES	840
QY	435	RKPTPIPIPPMVGQTKSLTIHWPPIISGVVYDRASGLCGACTEDGTFRQVHTASSR	494
DB	435	RKPTPIPIPPMVGQTKSLTIHWPPIISGVVYDRASGLCGACTEDGTFRQVHTASSR	494
QY	841	RKPTPIPIPPMVGQTKSLTIHWPPIISGVVYDRASGLCGACTEDGTFRQVHTASSR	900
DB	841	RKPTPIPIPPMVGQTKSLTIHWPPIISGVVYDRASGLCGACTEDGTFRQVHTASSR	900
QY	495	RVCDSGYWTPEAVGPPDQPCPSLQAWSEVHLHYHNMVTPCPTGCSLELLFQHP	554
DB	495	RVCDSGYWTPEAVGPPDQPCPSLQAWSEVHLHYHNMVTPCPTGCSLELLFQHP	554
QY	901	RVCDSGYWTPEAVGPPDQPCPSLQAWSEVHLHYHNMVTPCPTGCSLELLFQHP	960
DB	901	RVCDSGYWTPEAVGPPDQPCPSLQAWSEVHLHYHNMVTPCPTGCSLELLFQHP	960
QY	555	VOADTLTLWTSFFMESSQVLFDTLELLENKESVHLGPDFTCDIPLTIKLVHVDGKVS	614
DB	555	VOADTLTLWTSFFMESSQVLFDTLELLENKESVHLGPDFTCDIPLTIKLVHVDGKVS	614
QY	961	VOADTLTLWTSFFMESSQVLFDTLELLENKESVHLGPDFTCDIPLTIKLVHVDGKVS	1020
DB	961	VOADTLTLWTSFFMESSQVLFDTLELLENKESVHLGPDFTCDIPLTIKLVHVDGKVS	1020
QY	615	KVYTFDERIEIDAALTSQPHSLCSCGRPVRYQVLRDPPFASGLPVVWTHSHRKFTDVE	674
DB	615	KVYTFDERIEIDAALTSQPHSLCSCGRPVRYQVLRDPPFASGLPVVWTHSHRKFTDVE	674
QY	1021	KVYTFDERIEIDAALTSQPHSLCSCGRPVRYQVLRDPPFASGLPVVWTHSHRKFTDVE	1080
DB	1021	KVYTFDERIEIDAALTSQPHSLCSCGRPVRYQVLRDPPFASGLPVVWTHSHRKFTDVE	1080
QY	675	VTPQMYQVQLAAGAGELGEASPLNHTHGPYCGDKGVSEKSCNDGDLVSDGGS	734
DB	675	VTPQMYQVQLAAGAGELGEASPLNHTHGPYCGDKGVSEKSCNDGDLVSDGGS	734
QY	1081	VTPQMYQVQLAAGAGELGEASPLNHTHGPYCGDKGVSEKSCNDGDLVSDGGS	1140
DB	1081	VTPQMYQVQLAAGAGELGEASPLNHTHGPYCGDKGVSEKSCNDGDLVSDGGS	1140
QY	735	KVCELEEGFNCVGEPSLCYMEGDGICBPFERKTSIVDCGIYTPKGYLDQWATRAYSSHE	794
DB	735	KVCELEEGFNCVGEPSLCYMEGDGICBPFERKTSIVDCGIYTPKGYLDQWATRAYSSHE	794
QY	1141	KVCELEEGFNCVGEPSLCYMEGDGICBPFERKTSIVDCGIYTPKGYLDQWATRAYSSHE	1200
DB	1141	KVCELEEGFNCVGEPSLCYMEGDGICBPFERKTSIVDCGIYTPKGYLDQWATRAYSSHE	1200
QY	795	DKKCCPVSLVTGEPHSLIRTSYHPDLPHNRPLTGWPPCVASENETQDDRSEQPEGLKKE	854
DB	795	DKKCCPVSLVTGEPHSLIRTSYHPDLPHNRPLTGWPPCVASENETQDDRSEQPEGLKKE	854
QY	1201	DKKCCPVSLVTGEPHSLIRTSYHPDLPHNRPLTGWPPCVASENETQDDRSEQPEGLKKE	1260
DB	1201	DKKCCPVSLVTGEPHSLIRTSYHPDLPHNRPLTGWPPCVASENETQDDRSEQPEGLKKE	1260
QY	855	DEVWLKVCNRPGEARAIIFLITDGLVGEHQPTVTLTLDVRGNSHSLGTGLSCQH	914
DB	855	DEVWLKVCNRPGEARAIIFLITDGLVGEHQPTVTLTLDVRGNSHSLGTGLSCQH	914
QY	1261	DEVWLKVCNRPGEARAIIFLITDGLVGEHQPTVTLTLDVRGNSHSLGTGLSCQH	1320
DB	1261	DEVWLKVCNRPGEARAIIFLITDGLVGEHQPTVTLTLDVRGNSHSLGTGLSCQH	1320
QY	915	NPLIINVTHTHQNVLFRHTTSLVLLNFSSPRVGI3AVALRTSSRIGLSAPSNCISEDEQNH	974
DB	915	NPLIINVTHTHQNVLFRHTTSLVLLNFSSPRVGI3AVALRTSSRIGLSAPSNCISEDEQNH	974

Db	1321	NPLIINVTHQNVLPFHHTTSVLPNFSSPRVGISAVALTSSRIGLSAPSNCSISEDEQNH	1380
Qy	975	QGQSCITHRPGKQDSCPSLLLDHADVVNCTSIGPGLMKCATTCORGFALQASSEQYIRLM	1034
Db	1381	QGQSCITHRPGKQDSCPSLLLDHADVVNCTSIGPGLMKCAITCORGFALQASSEQYIRPM	1440
Qy	1035	QKEILLTCSGGHWDQNVCLPVDGVPDPSPSLVNYANFSCSEGTGFLKRCISICVPPAKLQ	1094
Db	1441	QKEILLTCSGGHWDQNVCLPVDGVPDPSPSLVNYANFSCSEGTGFLKRCISICVPPAKLQ	1500
Qy	1095	GLSPWLTCLDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDTVGTICKYECPGY	1154
Db	1501	GLSPWLTCLDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDTVGTICKYECPGY	1560
Qy	1155	YVAESAEGKVRNKLKIQCLEGGIWEQGSQIPVVCPEPPPPVFEQMYECTNGFSLDSQCVL	1214
Db	1561	YVAESAEGKVRNKLKIQCLEGGIWEQGSQIPVVCPEPPPPVFEQMYECTNGFSLDSQCVL	1620
Qy	1215	NCNQEREKLPILCTKEGLWTQBFKLCENLQGECPPPPSSELSVYKCEQYIGIGAVCSPL	1274
Db	1621	NCNQEREKLPILCTKEGLWTQBFKLCENLQGECPPPPSSELSVYKCEQYIGIGAVCSPL	1680
Qy	1275	CVIPSPDPVMLPENITADTLEHWMPEVKVQSIQCTGRRQWHPDPVLVHCIQSCPEPQADG	1334
Db	1681	CVIPSPDPVMLPENITADTLEHWMPEVKVQSIQCTGRRQWHPDPVLVHCIQSCPEPQANG	1740
Qy	1335	WCDTINNRAYCHVDGDCSSSTLSSKKVIPFAADCDLDECTCRDPKAEHQ	1385
Db	1741	WCDTINNRAYCHVDGDCSSSTLSSKKVIPFAADCDLDECTCRDPKAEHQ	1791

Search completed: February 3, 2006, 15:11:04  
Job time : 3.87272 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 15:16:21 ; Search time 0.001 Seconds  
(without alignments)  
1.064 Million cell updates/sec

Title: US-10-675-685-7

Perfect score: 94  
Sequence: 1 MMCLKILRISLAILAGWAL 19

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2 seqs, 56 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 2 summaries

Database : US10675685\_2.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	21.3	20	1 US-10-675-685-18	Sequence 18, Appl
2	14	14.9	36	1 US-10-675-685-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1  
US-10-675-685-18  
; Sequence 18, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; CURRENT FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 18  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-18

Query Match 21.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 80.0%; Pred. No. 0;  
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 12 AILAG 16  
||:|  
Db 6 AILAG 10

RESULT 2  
US-10-675-685-14  
; Sequence 14, Application US/10675685  
; GENERAL INFORMATION:  
; APPLICANT: Gu, Yizhong  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E  
; FILE REFERENCE: PB0114  
; CURRENT APPLICATION NUMBER: US/10/675,685  
; CURRENT FILING DATE: 2003-09-30  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; NUMBER OF SEQ ID NOS: 1881  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 14  
; LENGTH: 36  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-675-685-14

Query Match 14.9%; Score 14; DB 1; Length 36;  
Best Local Similarity 28.6%; Pred. No. 0;  
Matches 2; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 11 LAILAGW 17  
:|:|  
Db 28 VALPSRW 34

Search completed: February 3, 2006, 15:16:22  
Job time : 0.001 secs